

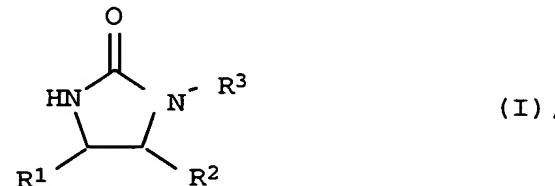
Process for the preparation of chiral imidazolidin-2-ones

Abstract

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The invention relates to a process for preparing chiral imidazolidin-2-ones of the formula I

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in which

15 R^1 is $\text{C}_1\text{-}\text{C}_8$ -alkyl, cyclohexyl, phenyl, a $\text{C}_1\text{-}\text{C}_6$ -alkyl-, halo-, nitro-, $\text{C}_1\text{-}\text{C}_6$ -alkoxy-, $\text{C}_1\text{-}\text{C}_6$ -alkylmercapto- or CF_3 -substituted phenyl radical, naphthyl or a $\text{C}_1\text{-}\text{C}_6$ -alkyl-, halo-, nitro-, $\text{C}_1\text{-}\text{C}_6$ -alkoxy- or CF_3 -substituted naphthyl radical,

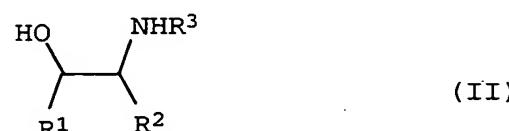
20 R^2 is $\text{C}_1\text{-}\text{C}_8$ -alkyl, $\text{C}_2\text{-}\text{C}_8$ -alkenyl, cyclohexyl, phenyl or a phenyl- $\text{C}_1\text{-}\text{C}_6$ -alkyl radical which may be substituted by a nitro, $\text{C}_1\text{-}\text{C}_6$ -alkoxy, methylenedioxy or CF_3 radical, and

25 R^3 is $\text{C}_1\text{-}\text{C}_{12}$ -alkyl, $\text{C}_2\text{-}\text{C}_8$ -alkenyl, cyclohexyl, phenyl or a $\text{C}_1\text{-}\text{C}_6$ -alkyl-, halo-, nitro-, $\text{C}_1\text{-}\text{C}_6$ -alkoxy-, methylenedioxy-, dialkylamino- or CF_3 -substituted phenyl radical,

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by reacting a compound of the formula II or the salt thereof

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in which R^1 , R^2 and R^3 have the abovementioned meaning,

35 with urea in the presence of an involatile ammonium salt, wherein the reaction is carried out in the presence of an aprotic polar organic solvent.

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